IN THE CLAIMS

Please cancel claims 1-8 and 21-34.

Below is a complete listing of the claims pending in this application:

- 1. (Canceled)
- 2. (Canceled)
- 3. (Canceled)
- 4. (Canceled)
- 5. (Canceled)
- 6. (Canceled)
- 7. (Canceled)
- 8. (Canceled).
- 9. (Currently Amended) A substantially crystalline graphitic carbon nanofiber [comprised of consisting essentially of substantially graphite discontinuous sheets that are substantially parallel to the longitudinal axis of the [nanofibers] nanofiber, wherein the distance between graphite sheets is from about 0.335 nm to about 0.67 nm, and having a crystallinity greater than about 95%, wherein each of said graphite sheets are separate sheets, each having a top, a bottom and sides, which sheets are substantially parallel to each other.
- 10. (Original) The nanofiber of the claim 9 wherein the distance between the graphite sheets is from about 0.335 and 0.40 nm.
- 11. (Original) The nanofiber of claim 9 wherein at least a portion of the edge regions of the nanofiber contain a functional group selected from the group consisting of basic groups, acidic groups, and oxygenated groups.

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- 12. (Original) The nanofiber of claim 11 wherein the functional group is a basic group that is a NH₄+ group.
- 13. (Original) The nanofiber of claim 11 wherein the functional group is an acid group which is a COOH group.
- 14. (Original) The nanofiber of claim 11 wherein the functional group is an oxygenated group selected from the group consisting of hydroxyl, peroxide, ether, keto, and aldehyde.
- 15. (Currently Amended) A substantially crystalline graphitic carbon nanofiber [comprised] consisting essentially of continuous substantially graphite sheets that are substantially parallel to the longitudinal axis of the nanofibers and which has a substantially non-cylindrical multifaceted tubular structure, wherein the distance between graphite sheets is from about 0.335 nm to about 0.67 nm, and having a crystallinity greater than about 95%.
- (Original) The nanofiber of the claim 15 wherein the distance between the graphite sheets is from about 0.335 and 0.40 nm.
- 17. (Original) The nanofiber of claim 15 wherein at least a portion of the edge regions of the nanofiber contain a functional group selected from the group consisting of basic groups, acidic groups, and oxygenated groups.
- 18. (Original) The nanofiber of claim 17 wherein the functional group is a basic group that is a NH₄+ group.
- (Original) The nanofiber of claim 17 wherein the functional group is an acid group which is a COOH group.
- 20. (Original) The nanofiber of claim 17 wherein the functional group is an oxygenated group selected from the group consisting of hydroxyl, peroxide, ether, keto, and aldehyde.
- 21. (Canceled)
- 22. (Canceled)

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- 23. (Canceled)
- 24. (Canceled)
- 25. (Canceled)
- 26. (Canceled)
- 27. (Canceled)
- 28. (Canceled)
- 29. (Canceled)
- 30. (Canceled)
- 31. (Canceled)
- 32. (Canceled)
- 33. (Canceled)
- 34. (Canceled)

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